

Abstract of the Disclosure

A piezoelectric actuator for media flowing around it having a piezo stack which is arranged within a deformable isolating material so as to be in direct contact therewith at least over certain regions. The isolating material is for its part enclosed by a fluidically closed actuator housing, which is formed by a housing shell which is delimited at its one end by a dimensionally stable actuator top and at its other end by a dimensionally stable actuator bottom. The actuator top and bottom are arranged on the active main surfaces of the piezo stack. To increase the service life, the housing shell is produced from a limp and/or elastic material and is disposed at a distance from the piezo stack. The length of the housing shell, measured along the surface line, corresponds at least to the maximum extent of the piezo stack and/or the housing shell can be stretched accordingly.